oc - Fiber Optic Cable

Cable designs a, b, c, and d complies with 7 CFR 1755.900. Cable design e - complies with RUS requirements for Fiber Optic Service Entrance Cables. Cable designs, RUS suffixes and notes are outlined on page 1.5.3. For cable installation, PON users must follow the manufacturer's recommended use and practices.

Manufacturer name and accepted fibers	Accepted Cables	Cable Design	Suffixes
Alcoa Fujikura Ltd Accepted for dispersion-unshifted and dispersion-shifted single mode	Dielectric(Pure) Uni-Tube MicroCore ⁽²⁾⁽⁷⁾	а	В
optical fibers. Also accepted for	AFL ADSS Mini-Span Series	С	J
50/125 and 62.5/125 micrometer	AFL Loose Tube Cable	d	F
multimode optical fibers.	AFL Armored Loose Tube Cable	d	Н
<u>CommScope</u>	O-XXX-LN-XY-F12NS (Arid Core)	d	F
Accepted only for dispersion-	O-XXX-LA-XY-F12NS (Arid Core)	d	Н
unshifted single mode optical fibers.	O-XXX-L2-XY-F12NS (Arid Core)	d	н
Corning Cable Systems SMF-28e (standard single-mode) LEAF (non-zero dispersion shifted single-mode) NexCor (premium single-mode) InfiniCor (50/125 Multi-mode and 62.5/125 Multi-mode)	SST-Ribbon, SST-Ribbon Gel-Free*, SST- UltraRibbon (Dielectric & Armored versions accepted)	а	В, С, Р
	SST-Drop (Dielectric & Armored - Toneable versions included)	е	B, C, P
	SOLO All-Dielectric Self Supporting (ADSS Short Span & ADSS Medium-Span)	С	J, P
	ALTOS™ Filled and Gel Free (Lite version included)	С	I, K, P
		d	E, F, G, H, P
	ALTOS™ Figure-8 Gel-Free and Filled (Lite version included)	С	I, K, P
		d	E, F, G, H, P
	ALTOSRD™ (Lite version included)	d	E, F, G, H, P

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Draka Comteq	ezUNITUBE™	a, e	B, C
Standard singlemode, Enhanced Singlemode, BendBright (XS),	ezPREP™ Loose Tube Central	a, e	М
	ezRIBBON™ Central Tube (8)(9)	а	A, B, C,
TeraLight Metro NZDSF,	(includes Gel Free version*)		D
TeraLight Ultra NZDSF, includes 2.65 mm loose tubes.	ezPREP™ Loose Tube Traditional Filled/Dry	b, d, e	E, F, G,
2.65 mm loose tubes.	(includes Heavy Duty versions)		Η
	ezPREP™ Loose Tube includes versions:	c, d, e	E, F, G,
	Heavy Duty		H, I, K
	2. Gel Free*		
	Figure 8		
	ezSPAN™ADSS Short Span	c, e	J
	ezMICRODUCT TM ⁽⁷⁾	d, e	F
	ezSPAN™ADSS Long Span	С	J
	ezDROP™ Dielectric	е	B, P
	ezDROP™ Toneable		
	ezDROP™ Figure 8	е	B, P
Hitachi Cable	60090	d	F
Accepted only for dispersion-	60102	d	Н
unshifted and dispersion-shifted single mode optical fibers.	60298 (4)	d	Н
single mode optical libers.	00200	-	
NextGen Fiber Optics/ General	4M ⁽³⁾ Y-DWB	С	1
Cable	4H (3)N-DWB	С	K
Accepted only for dispersion-	4_ ⁽⁶⁾ 2A-DWB	d	E
unshifted single mode optical	4 ⁽⁶⁾ 1A-DWB	d	F
fibers.	4_ ⁽⁶⁾ 2F-DWB	d	G
	4_(6)1F-DWB	d	Н
OFS	LightPack® LXE	а	B, C
OFS Single Mode Fibers:	Mini C2™	а	C, P
AllWave®, AllWave® FLEX ZWP, TrueWave® RS, Singlemode Low Water Peak (Contact OFS for Literature)	AccuRibbon® DC	а	B, C
	Single Jacket, Armored (contact OFS for literature),	b	E, F, G,
	Light-Armored	d	H, P
	Figure8 (includes Armored version, contact OFS	С	I, K, P
OFS Multi Mode Fibers:	for literature)	_	
LaserWave™ (50 um), Laser	PowerGuide® ADSS (includes TTH version)	С	J, P
Optimized Fiber 62.5/62.5XL,	Fortex TM DT (includes High Density version and		E, F, G,
Standard 62.5um & 50um	both may be Single Jacket, Armored, or Light- Armored as needed)	d	H, P
Multimode Fiber (Contact OFS for Literature)	AccuRibbon® LXE	а	B, C
	Mini LXE	e e	C C
	Dielectric Drop	e	В
	Mini LT (toneable version included)	e	В

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Prysmian CentraLink™ (2) (includes CD version) a, e D Accepted only for dispersion-unshifted and dispersion-shifted single mode optical fibers. Examination (includes Armored version) d F, H Remee Products Accepted for dispersion-unshifted and dispersion-shifted single mode optical fibers. Also accepted for 50/125 and 62.5/125 micrometer multimode optical fibers. 22 Series (Contact Remee for literature on dry block designs, flooded designs on web) b,d,e G, H 28 Series (3) (Contact Remee for literature on dry block designs, flooded designs on web) b,d,e G, H 28 Series (3) (Contact Remee for literature on dry block designs, flooded designs on web) b,d,e G, H 28 Series (3) (Contact Remee for literature on dry block designs, flooded designs on web) b,d,e G, H 28 Series (3) (Contact Remee for literature on dry block designs, flooded designs on web) b,d,e G, H 38 Series (3) (Contact Remee for literature on dry block designs, flooded designs on web) c K, L 4 Series (3) (Contact Remee for literature on dry block designs, flooded designs on web) c Litepipe™ ADS™ (Ribbon & Fiber Bundle) a B 5 Litepipe™ Armorlux® (Ribbon & Fiber Bundle) a B, C DriCore® DriTube (ribbon cable) a	Manufacturer name and accepted fibers	Accepted Cables	Cable Design	Suffixes
Accepted only for dispersion-unshifted and dispersion-shifted single mode optical fibers. Remee Products FiexLink™ (includes Armored version) Dispersion of the products	Prvsmian	Contral inkTM (2) (includes CD version)	ае	D
Remee Products Remee Products Series Contact Remee for literature on dry block designs, flooded designs on web) Suritomo Electric Sumitomo Electric Accepted for dispersion-unshifted fiber (PureBand and PureAccess) and dispersion-unshifted fiber (PureBand and PureMetro). Also accepted for 50/125 micrometer multimode optical fibers. Sumitomo Electric Sumitomo Electric Sumitomo Electric Accepted for dispersion-unshifted fiber (PureBand and PureAccess) and dispersion-shifted single mode optical fibers (PureGuide and PureMetro). Also accepted for 50/125 and 62.5/125 micrometer multimode optical fibers. Superior Essex Superior Essex Accepted only for dispersion-unshifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-shifted single mode optical fibers. Accepted only for dispersion-shifted single mode optical fibers Accepted for dispersion-shifted single mode optical fibers Accepted f	Accepted only for dispersion-unshifted and dispersion-shifted	AeroLink™ ADSS (includes Short, Medium, and	,	
Accepted for dispersion-unshifted and dispersion-shifted single mode optical fibers. Also accepted for 50/125 and 62.5/125 micrometer multimode optical fibers. Sumitomo Electric			d	F, H
Accepted for dispersion-unshifted and dispersion-shifted single mode optical fibers. Also accepted for 50/125 and 62.5/125 micrometer multimode optical fibers. Sumitomo Electric				
mode optical fibers. Also accepted for 50/125 and 62.5/125 micrometer multimode optical fibers. block designs, flooded designs on web 25 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 28 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 83 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 83 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 83 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 83 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 84 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 85 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 80 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 80 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 80 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 80 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 80 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 80 Series (4) (Contact Remee for literature on dry block designs, flooded designs on web) 80 Series (4) (Sometime for literature on dry block designs, flooded designs on web) 80 Series (4) (Sometime for literature on dry block designs, flooded designs on web) 80 Series (4) (Sometime for literature on dry block designs, flooded designs on web) 90 Series (4) (Sometime for literature on dry block designs, flooded designs on web) 90 Series (4) (Sometime for literature on dry block designs, flooded designs on web) 90 Series (4) (Sometime for literature on dry block designs, flooded designs on web) 90 Series (4) (Sometime for literature on dry block designs, flooded designs on web) 90 Series	Accepted for dispersion-unshifted and dispersion-shifted single mode optical fibers. Also accepted for 50/125 and 62.5/125 micrometer multimode optical	block designs, flooded designs on web)	b,d,e	E, F
block designs, flooded designs on web) 28 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 83 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 84 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 85 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 86 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 87 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 88 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 89 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 80 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 80 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 80 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 81 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 82 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 83 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 85 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 86 Series (A)(S) (Contact Remee for literature on dry block designs, flooded designs on web) 87 Series (A)(S) (Ribbon & Fiber Bundle) 88 Series (A)(S) (Ribbon & Fiber Bundle) 89 Diricroes 80 Diricroes 80 Diricroes 81 Diricroes 81 Diricroes 82 Series (A)(S) (Ribbon & Fiber Bundle) 83 Series (A)(S) (Ribbon & Fiber Bundle) 84 Diricroes 85 Diricroes 86 Diricroes 87 Diricroes 87 Diricroes 88 Diricroes (Ribbon & Fiber Bundle) 89 Diricroes (Ribbon & Fiber Bundle) 80 Diricroes (Ribbon & Fiber Bundle) 80 Diricroes (Ribbon & Fiber Bundle) 81 Diricroes (Ribbon & Fiber Bundle) 82 D		block designs, flooded designs on web)	b,d,e	G, H
Sumitomo Electric Accepted for dispersion-unshifted fiber (PureBand and PureAccess) and dispersion-shifted single mode optical fibers. Superior Essex Accepted only for dispersion-unshifted single mode optical fibers. SLT(2) SLT-D-R ⁽²⁾ (Ribbon) SLT-D-R ⁽²⁾ (Ribbon) SLT-D-R ⁽²⁾ (Ribbon) SLT-D-R ⁽²⁾ (Ribbon) Also accepted fibers. SLT(2) SLT-D-R ⁽²⁾ (Ribbon) Also accepted fibers. SLT-D-R ⁽²⁾ (Ribbon) Accepted only for dispersion-unshifted and dispersion-shifted single mode optical fibers. SLT-D-R ⁽²⁾ (Ribbon) Also accepted fibers. SLT-D-R ⁽²⁾ (Ribbon) Accepted only for dispersion-shifted single mode optical fibers. SLT-D-R ⁽²⁾ (Ribbon) Also accepted fibers. Accepted only for dispersion-shifted single mode optical fibers. SLT-D-R ⁽²⁾ (Ribbon) Also accepted fibers. Accepted only for dispersion-shifted single mode optical fibers. SLT-D-R ⁽²⁾ (Ribbon) Also accepted fibers. Accepted fibers A		block designs, flooded designs on web)	b,d,e	E, F
block designs, flooded designs on web) 88 Series (4)(5) (Contact Remee for literature on dry block designs, flooded designs on web) C			b,d,e	G, H
Sumitomo Electric Accepted for dispersion-unshifted fiber (PureBand and PureAccess) and dispersion-shifted single mode optical fibers (PureGuide and PureMetro). Also accepted for 50/125 and 62.5/125 micrometer multimode optical fibers. Litepipe™ ATMORITM (Ribbon & Fiber Bundle) a B Litepipe™ Armorlux® (Ribbon & Fiber Bundle) a C DriCore® d E, F, G, H DriTube (ribbon cable) a B, C SE-*LW*, *LV*, *LG*, *LH* e N Superior Essex Accepted only for dispersion-unshifted and dispersion-shifted single mode optical fibers. SLT(2) a B, D MLT b E, F, G, H MLT-8 c I, K MLT-D-8 c I, K MLT-D-8 c I, K		block designs, flooded designs on web)	С	K, L
Accepted for dispersion-unshifted fiber (PureBand and PureAccess) and dispersion-shifted single mode optical fibers (PureGuide and PureMetro). Also accepted for 50/125 and 62.5/125 micrometer multimode optical fibers. Superior Essex Accepted only for dispersion-unshifted and dispersion-shifted single mode optical fibers. SLT(2) SLT(2) SLT-D-R ⁽²⁾ (Ribbon) MLT MLT-8 MLT-8 MLT-8 MLT-D-8 Litepipe™ Armorlux® (Ribbon& Fiber Bundle) a C E, F, G, H H B, C B, D SLT-D-R ⁽²⁾ (Ribbon) a B, D E, F, G, H H MLT-8 MLT-8 MLT-8 MLT-D-8			С	I, J
Accepted for dispersion-unshifted fiber (PureBand and PureAccess) and dispersion-shifted single mode optical fibers (PureGuide and PureMetro). Also accepted for 50/125 and 62.5/125 micrometer multimode optical fibers. Superior Essex Accepted only for dispersion-unshifted and dispersion-shifted single mode optical fibers. SLT(2) SLT(2) SLT-D-R ⁽²⁾ (Ribbon) MLT MLT-8 MLT-8 MLT-8 MLT-D-8 Litepipe™ Armorlux® (Ribbon& Fiber Bundle) a C E, F, G, H H B, C B, D SLT-D-R ⁽²⁾ (Ribbon) a B, D E, F, G, H H MLT-8 MLT-8 MLT-8 MLT-D-8				
fiber (PureBand and PureAccess) and dispersion-shifted single mode optical fibers (PureGuide and PureMetro). Also accepted for 50/125 and 62.5/125 micrometer multimode optical fibers. Superior Essex Accepted only for dispersion-unshifted and dispersion-shifted single mode optical fibers. SLT(2) SLT-D-R ⁽²⁾ (Ribbon) Also accepted Recomplete the provided in the provid			а	
and dispersion-shifted single mode optical fibers (PureGuide and PureMetro). Also accepted for 50/125 and 62.5/125 micrometer multimode optical fibers. Superior Essex Accepted only for dispersion-unshifted and dispersion-shifted single mode optical fibers. SLT(2) SLT(2) SLT(2) SLT(2) SLT(2) SLT(2) SLT-D-R ⁽²⁾ (Ribbon) MLT MLT-8 MLT-8 MLT-8 MLT-D-8 DriCore® DriTube (ribbon cable) SE-*LW*, *LV*, *LG*, *LH* e N B, D C I, K MLT-B MLT-B MLT-B C I, K		Litepipe™ Armorlux® (Ribbon& Fiber Bundle)	а	_
and PureMetro). Also accepted for 50/125 and 62.5/125 micrometer multimode optical fibers. Superior Essex Accepted only for dispersion-unshifted and dispersion-shifted single mode optical fibers. SLT(2) SLT(2) SLT-D-R ⁽²⁾ (Ribbon) MLT MLT MLT-8 C I, K MLT-D-8 SE-*LW*, *LV*, *LG*,*LH* e N SE-*LW*, *LV*, *LG*,*LH* e N SE-*LW*, *LV*, *LG*,*LH* e N E, F, G, H MLT MLT-8 C I, K	and dispersion-shifted single mode optical fibers (PureGuide and PureMetro). Also accepted for 50/125 and 62.5/125 micrometer multimode optical	DriCore®	d	Н
for 50/125 and 62.5/125 micrometer multimode optical fibers. Superior Essex Accepted only for dispersion-unshifted and dispersion-shifted single mode optical fibers. SLT(2) SLT(2) SLT(2) SLT-D-R ⁽²⁾ (Ribbon) MLT MLT MLT-8 MLT-8 MLT-D-8 C N R R R R R R R R R R R R			а	
micrometer multimode optical fibers. Superior Essex Accepted only for dispersion-unshifted and dispersion-shifted single mode optical fibers. SLT(2) SLT(2) SLT-D-R ⁽²⁾ (Ribbon) a B, D E, F, G, H MLT MLT-8 C I, K MLT-D-8 C I, K		SE-*LW*, *LV*, *LG*,*LH*	е	N
Superior Essex Accepted only for dispersion- unshifted and dispersion-shifted single mode optical fibers.SLT(2) SLT-D-R ⁽²⁾ (Ribbon)a B, D B, D B, F, G, HMLTbE, F, G, HMLT-8 MLT-D-8cI, K				
Accepted only for dispersion- unshifted and dispersion-shifted single mode optical fibers. SLT-D-R ⁽²⁾ (Ribbon) MLT MLT-8 MLT-B MLT-B C I, K MLT-D-8	110010.			
Accepted only for dispersion- unshifted and dispersion-shifted single mode optical fibers. SLT-D-R ⁽²⁾ (Ribbon) MLT MLT-8 MLT-B MLT-B C I, K MLT-D-8	Superior Essex	SLT(2)	а	B, D
single mode optical fibers. MLT-8 MLT-9 C I, K MLT-D-8 C I, K	Accepted only for dispersion-	SLT-D-R ⁽²⁾ (Ribbon)	1	B, D
MLT-8	unshifted and dispersion-shifted	MLT	b	
550			С	I, K
$ _{MIT-D}$ $ _{A}$ $ _{E, F, G, }$		MLT-D-8	С	
MLI-D		MLT-D	d	

Cable Designs:

- a Unit Core or Central Core Tube Fiber Core Construction
- b Gel Filled Multiple Loose Tube Core Construction; May contain multiple fibers per tube.
- c Self-Supporting Filled Fiber Optic Cables
- d Dry Filled Multiple Loose Tube Fiber Core Construction; May contain multiple fibers per tube.
- e Complies with Draft RUS Specification for Fiber Optic Service Entrance Cables
- * Indicates Cable Designs that are fully dry using water blocking elements throughout.

Suffixes:

- A Nonarmored with Metallic Strength Members Embedded in Jacket
- B Nonarmored with Dielectric Strength Members Embedded in Jacket for aerial and duct use only
- C- Armored with Metallic Strength Members Embedded in Jacket
- D Armored with Dielectric Strength Members Embedded in Jacket
- E Nonarmored with Metallic Central Strength Member for aerial and duct use only
- F Nonarmored with Dielectric Central Strength Member for aerial and duct use only
- G Armored with Metallic Central Strength Member
- H Armored with Dielectric Central Strength Member
- I Nonarmored with Metallic Support Messenger
- J Nonarmored with Dielectric Support Messenger
- K Armored with Metallic Support Messenger
- L Armored with Dielectric Support Messenger
- M Armored with additional strength yarns in place of strength members for tensile strength.
- N Nonarmored Dielectric Cable for aerial, underground and buried use.
- P Preconnectorized Cable

Notes

- (1) May contain multiple fibers per tube.
- (2) Not embedded in jacket; surrounds central core tube.
- (3) Replace blank with the number 1 or 2.
- (4) Double jacketed design.
- (5) Single jacketed design.
- (6) Replace blank with either the letter M or H.
- (7) For air blown microduct (a duct having a diameter of 10 to 13 millimeters) installations only.
- (8) Toneable ribbon cable accepted
- (9) High count (288-432) 24 fiber splittable ribbon accepted